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(56) Documents cited
GB 2014445 A GB 1401260 A GB 1387635 A
GB 1304939 A

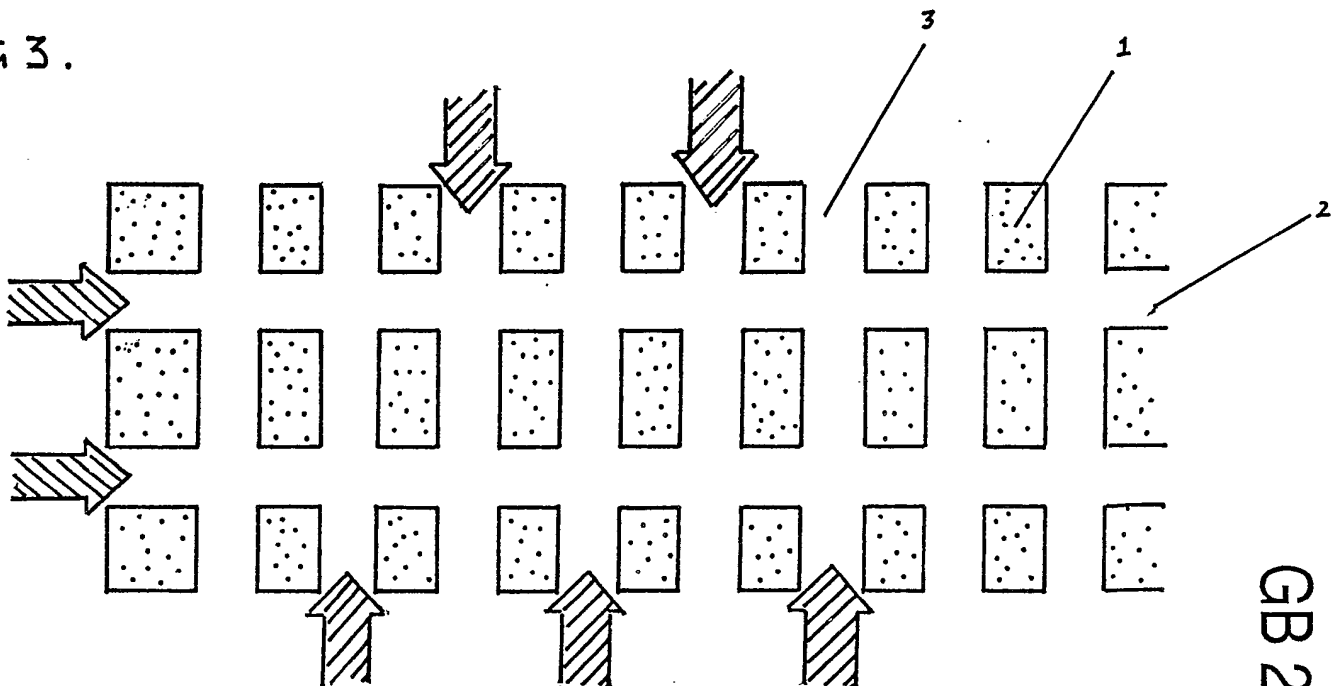
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UK CL (Edition K) A4M M1D3 M1D4 M1P
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(54) Baby safe sleep mattress

(57) The fireproofed foam rubber mattress (1) is made up of horizontal (2) and vertical (3) air channels in a continuous pattern throughout the entire mattress.

The vertical and horizontal airways are linked to allow unrestricted airflow to a sleeping baby, the benefits being that heat can escape from all around the baby preventing overheating, and unrestricted breathing should baby turn onto its face, or regurgitate as the air channels will then act as a drainage system and allow debris to flow away from babies mouth.

FIG 3.



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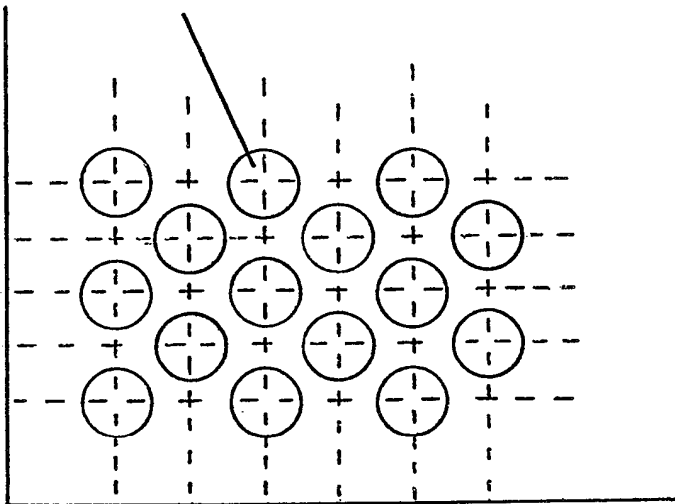


FIG 1.

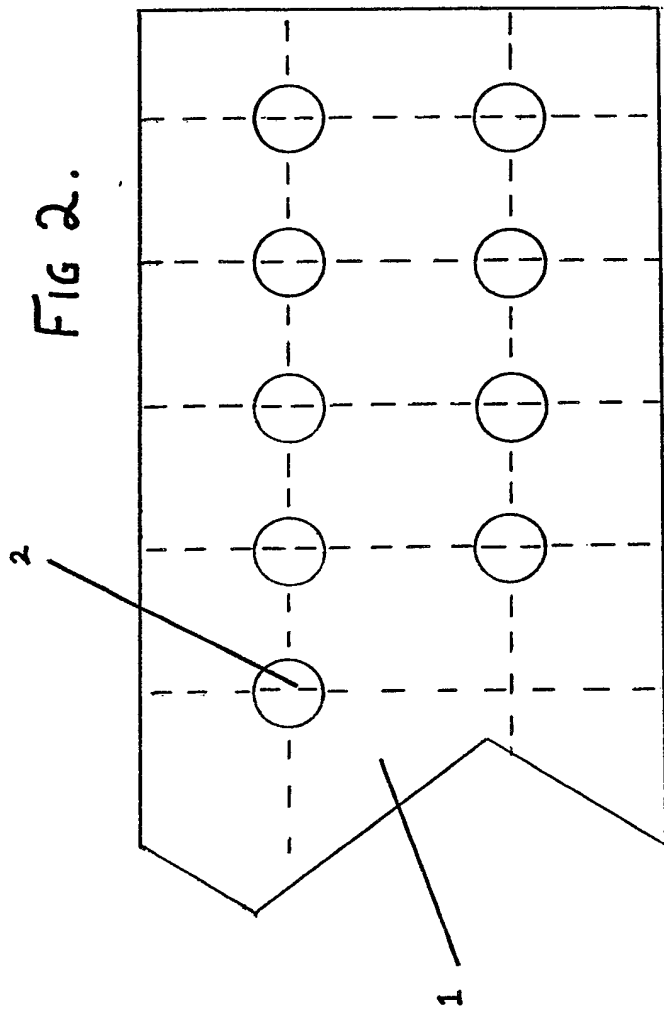


FIG 2.

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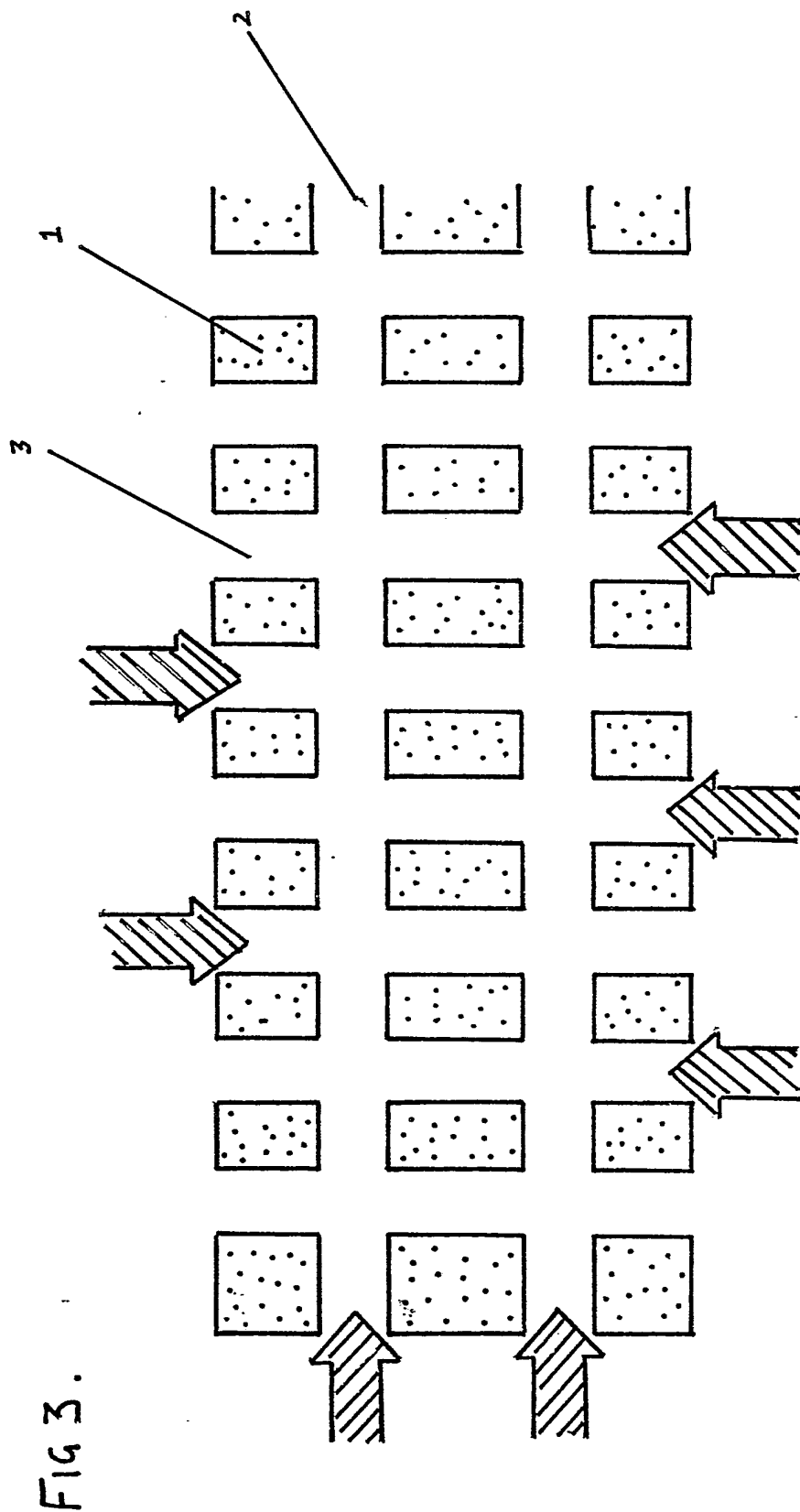


FIG 4.

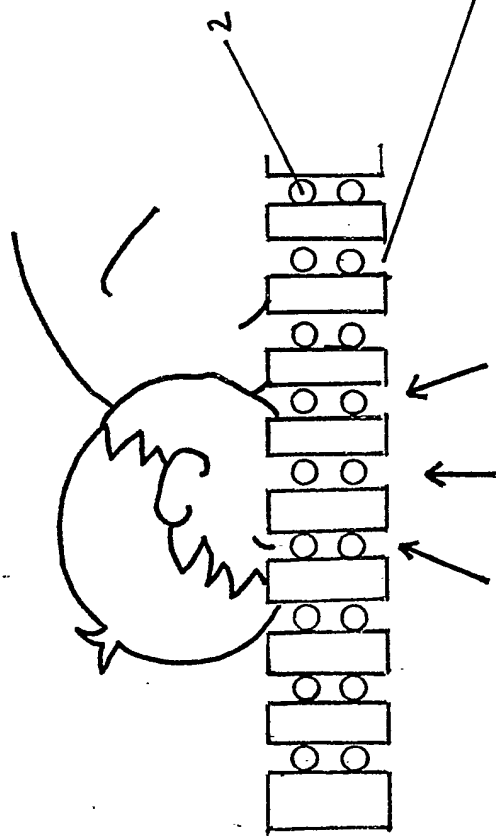


FIG 5.

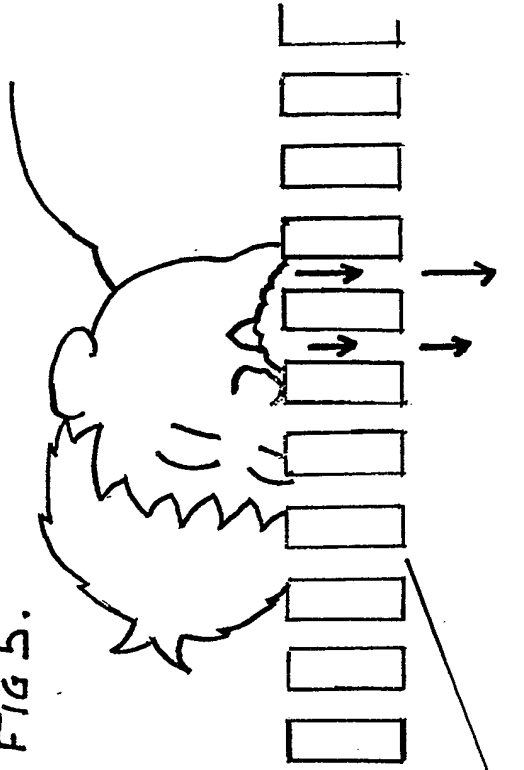
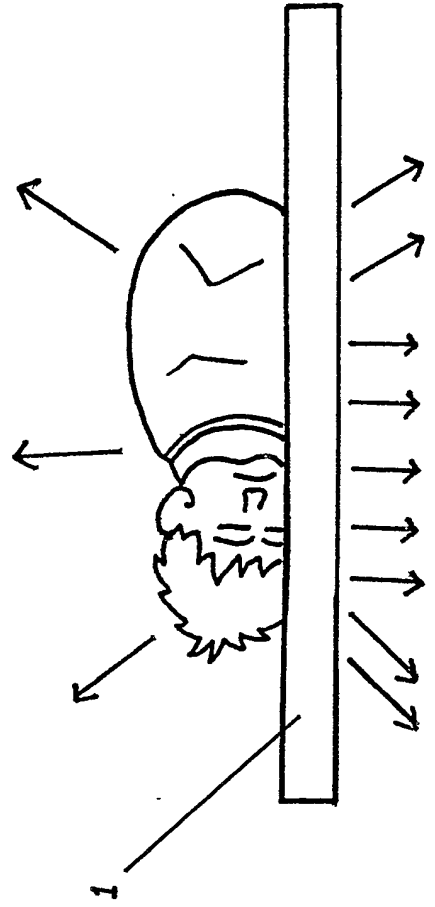


FIG 6.



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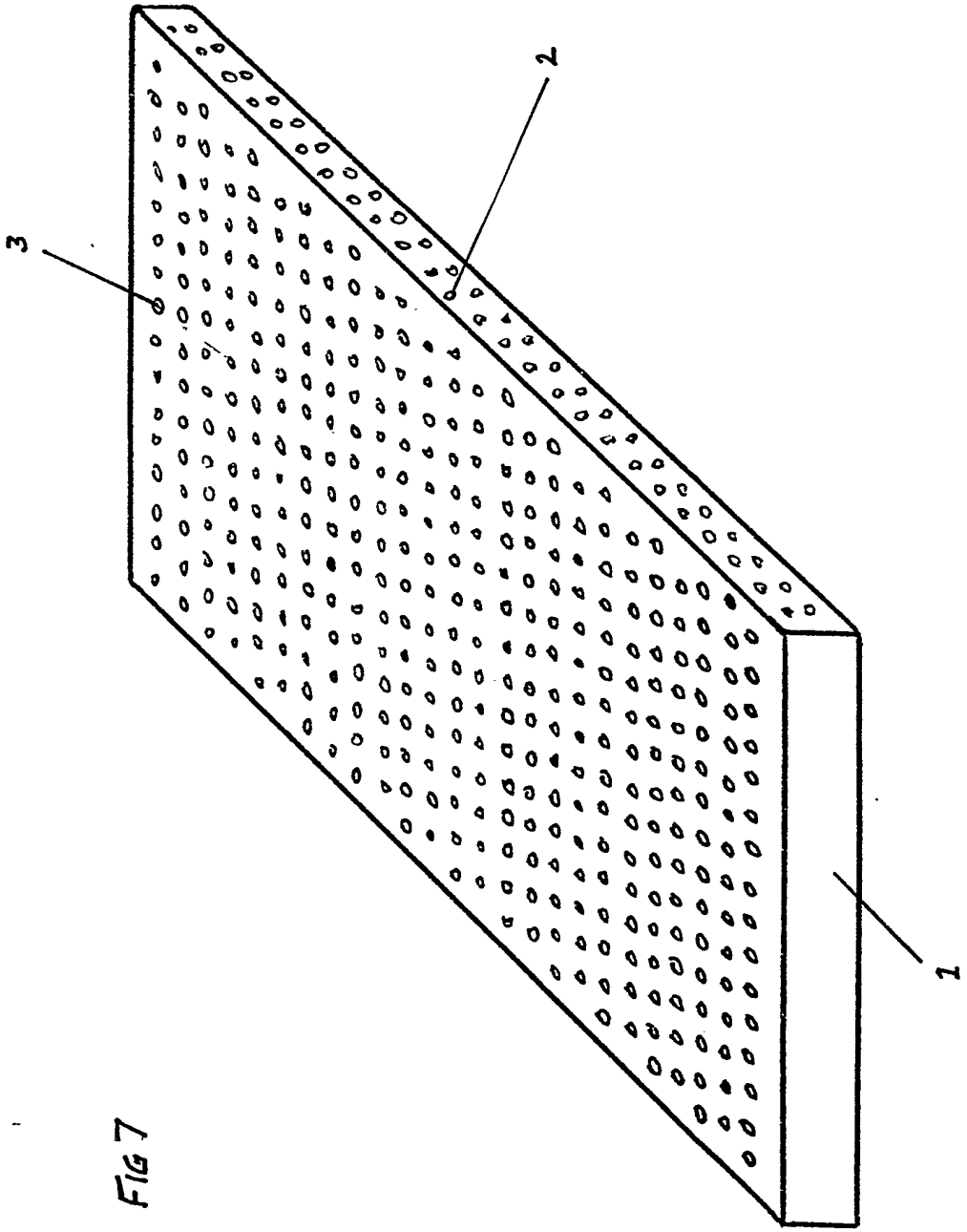


FIG 7

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BABY SAFE SLEEP MATTRESS

This invention relates to a ventelated infant mattress.

There can be very few parents who, when they put their young baby into it's cot to sleep, do not fear that when they return they will find that their baby has died, perhaps from a tragic cot death, or from a more explainable but no less tragic event like choking or suffocation.

One of the factors being considered as contributory to cot death is that of the baby becomming overheated. On a conventional mattress the only place where heat loss can occur is from the head of the baby.

With the present invention the carefully considered pattern of the vertical and horizontal air channels throughout the entirity of the mattress is designed to reduce the risks of such events occuring.

If the baby while sleeping rolls onto it's face and is unable to move it's head to clear it's airways, as in the case of a very young baby, the channels in the mattress are close enough together, and of such a diameter that, while still keeping the strength in the body of the mattress, will allow the child to continue unrestricted breathing.

If a baby, while laying on it's side or as above face down regurgitates while sleeping, again the vertical channels are of sufficient diameter to allow the waste matter to drain away from the childs airway, once again allowing unrestricted breathing.

On this mattress the air channels throughout the entirity of the mattress will allow heat to escape from the babies body as well as from the head area thus reducing the liklihood of overheating.

A specific embodiment of the invention will now be described by way of example with reference to the accompanying drawings in which;

- Figure 1 From the top shows a corner view of the mattress and the continuous pattern of air channels. To scale.
- Figure 2 Shows a side view section of the mattress and the horizontal air channels. To scale.
- Figure 3 Shows a cross section of the mattress with the vertical and horizontal air channels running through the mattress. To scale.
- Figure 4 Shows the air channels working to ventilate infant who has rolled onto it's face while sleeping.
- Figure 5 Shows channels acting as drainage system to take away vomit or other debris from airway of infant.
- Figure 6 Shows the theory of the air channels allowing excess heat to escape, keeping infant at a regular temperature.
- Figure 7 Shows, in abstract the general impression of the product.

Referring to the drawings the mattress will fit all standard size cots, and be of 70mm depth.

The vertical and horizontal channels will measure 10mm in diameter.

The centre of the first channel of the outer and every alternate row will measure 15mm from the outside edges of the mattress

The centre of the first channel of the second and every alternate row will measure 22.5mm in from the outside edges of the mattress forming a continuous pattern of five.

1. A fireproofed foam rubber mattress made up of vertical and horizontal air channels allowing non restricted air flow to baby regardless of sleeping position improved thermal conduction keeping infant at regular all over body temperature and reducing heat build up in the body area, and immediate draining facility should infant vomit.

2 There will be an option of a push out pillow section to enable washing or if necessary inexpensive replacement of that section.

3 A porous, cotton mix, stretch mattress cover will be advised for use in conjunction with this invention.

Patents Act 1977
Examiner's report to the Comptroller under
Section 17 (The Search Report)

Application number

9202277.1

Relevant Technical fields

(i) UK CI (Edition K) A4M(MID3, MID4, MIP)

(ii) Int CI (Edition 5) A47C, B68G

Search Examiner

MR J RIDDOCH

Databases (see over)

(i) UK Patent Office

(ii)

Date of Search

23 MARCH 1992

Documents considered relevant following a search in respect of claims

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Category (see over)	Identity of document and relevant passages	Relevant to claim(s)
X	GB A 2014445 (MINNISOTA) of the Figures	1
X	GB 1401260 (IDENIITSU) of Figure 3	1
X	GB 1387635 (MECHLMANN) of Figure 3	1
X	GB 1304939 (BREVCTEAM) of Figures 4 and 4a	1



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Category	Identity of document and relevant passages	Relevant to claim(s)

Categories of documents

X: Document indicating lack of novelty or of inventive step.

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